

I. AMENDMENTS

In the specification:

On page 10, line 1, please add the following paragraph

B2
--Figure 12 (SEQ ID NOs:1 through 4) is an alignment of amino acid sequences of wild-type LT-A. SEQ ID NO:1 shows a wild-type sequence of a porcine LT. SEQ ID NO:2 shows a wild-type sequence of a human LT. SEQ ID NO:3 and SEQ ID NO:4 show wild-type sequences of two variants of human Type II LT, designated IIa and IIb, respectively. Dashes indicate identical residues as compared to SEQ ID NO:1. Gaps introduced to maximize alignments are shown by periods.--

Following the claims, please insert the following Abstract (also provided on a separate sheet):

✓ --ABSTRACT

An immunogenic detoxified protein is provided which comprises the amino acid sequence of subunit A of an *E. coli* heat labile toxin (LT-A) or a fragment thereof in which at least amino acid Ala-72, numbered relative to SEQ ID NO:1, of the A subunits mutated, preferably by substitution with Arg. The toxoid is useful as vaccine against an enterotoxigenic strain of *E. coli* and is produced by recombinant DNA means by site-directed mutagenesis. It is also an effective adjuvant.--

In the claims:

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7. (Amended) A polynucleotide encoding an immunologically effective detoxified fragment of an *E. coli* heat labile toxin (LT-A), wherein said fragment is at least 8 amino acids in length and further wherein the said fragment comprises the amino

B3 C1
cont

acid residue corresponding to Ala-72 of SEQ ID NO:1 and wherein said residue is substituted with an arginine residue.

Please add new claim 30 as follows:

Subc2

--30. (New) The polynucleotide of claim 7, wherein the fragment comprises amino acid residues of SEQ ID NO:2.

B4

31. (New) The polynucleotide of claim 7, wherein the fragment comprises amino acid residues of SEQ ID NO:3.

32. (New) The polynucleotide of claim 7, wherein the fragment comprises amino acid residues of SEQ ID NO:4.--

Attached hereto are: a **version showing changes made to the specification**; a **version showing changes made to the claims**; and a **currently pending claim set**.